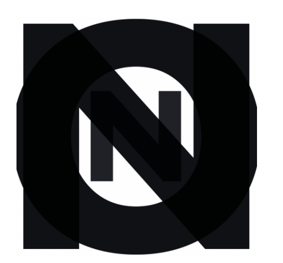
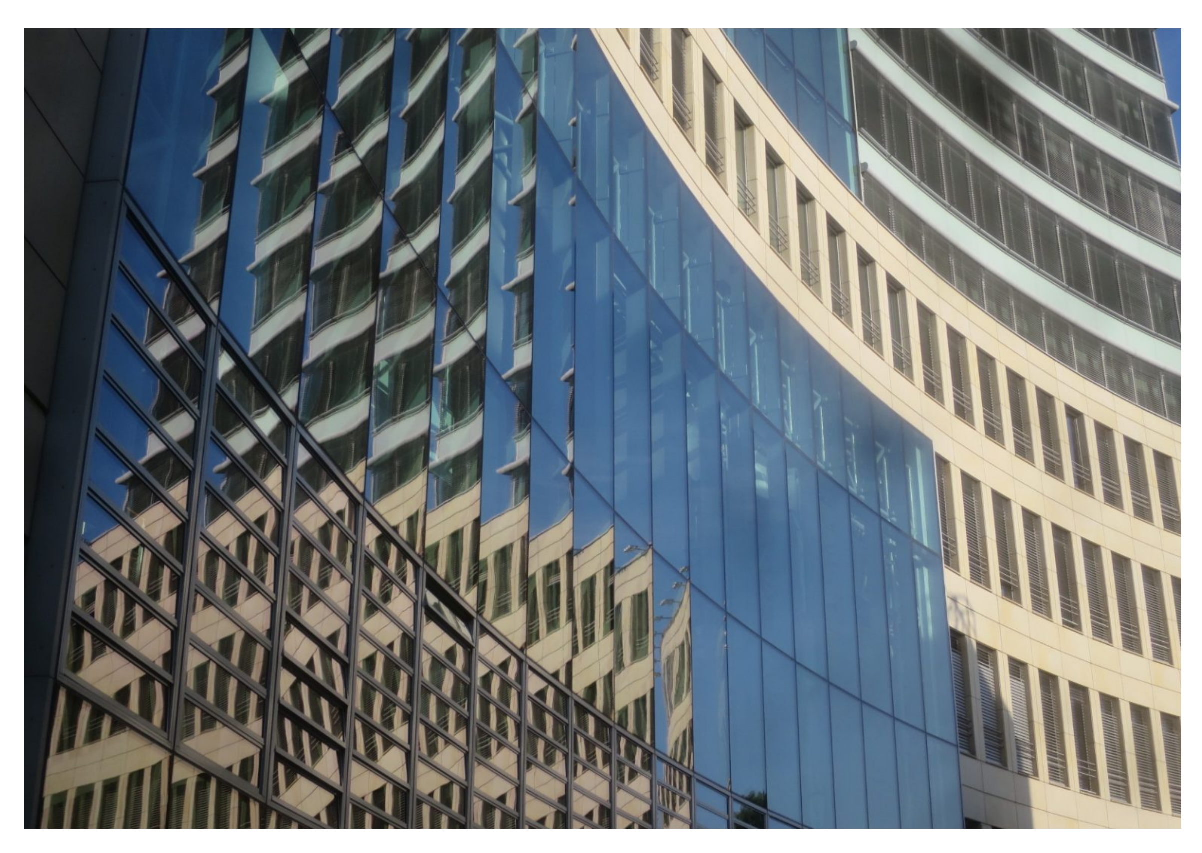






JENS SCHRÖTER 2024-01-06

QUANTUM COMPUTING AND THE ANALOG/DIGITAL DISTINCTION

GENERICSCIENCE, MASHINES ANALOG, DIGITAL, MEDIA, QUANTENCOMPUTER

Jens Schröter, Christoph Ernst, and Martin Warnke

(1) There is no “quantum revolution” in the sense that it will replace the “digital revolution.” Quantum computing reacts to problems produced by digitization (including encryption, Big Data, and the limits to classical computing posed by the complexity of simulations); in attempting to solve them, it thereby produces new problems (for which quantum cryptography may, in turn, be an answer). (2) Quantum mechanics and the difference between analog and digital form two genealogies that sometimes meet in certain historical configurations. (3) We can discern first-order and second-order quantum media. (4) The

analog/digital difference is reconfigured in quantum computing but not made obsolete. (5) Finally, it is too early to see exactly in which direction second-order quantum media will evolve, which architectures will stabilize, and what new applications can be built.

read here: https://www.academia.edu/113004948/Quantum_Computing_and_the_Analog_Digital_Distinction

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